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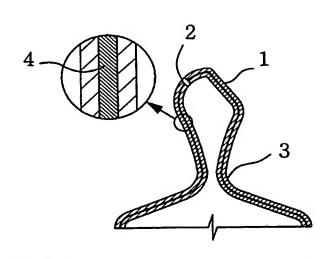
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AN ARTIFICIAL NIPPLE



(57) Abstract: The present invention relates to an artificial nipple. More particularly, the present invention relates to an artificial nipple, which has durability enough not to be torn with fatigue load resulting from teeth contact since fiber nets are embedded within the thickness of the artificial nipple, eliminates a difficulty in breathing by facilitating the flow of air, and prevents obstruction of the airway of an infant by distributing milk suction pressure when the infant sucks milk. The artificial nipple according to the present invention has a nipple body including a root portion, a teat portion with a feeding hole, and a narrow neck portion for making a connection between the root portion and the teat portion. The artificial nipple further comprises fiber nets (20) in the form of bands which are embedded within the thickness of the nipple body (10) such that they extend in a lengthwise direction L of the nipple body and are spaced apart form one another at a predetermined interval in a circumferential direction A of the nipple body, and an air inflow groove (15) formed in a portion of a surface of the nipple body (10)

which does not overlap with the fiber nets such that the air flow groove is connected to the feeding hole (12).



International application No. PCT/KR02/02032

A. CLASSIFICATION OF SUBJECT MATTER IPC7 A61J 11/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 A61J9, A61J11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KOREAN PATENTS AND UTILITY MODELS

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)
KIPSS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP7-1939Y(BIBPUHUJIMOTO) 13 JAN. 1995(13.01.1995), Abstract, Fig1.	1
A	KR86-5632A(NITANGONG) 11 AUG. 1986(11.08.1986), See entire document.	1
A	KR89-2232Y(HAERONG SILICON) 28 MAR. 1989 (28.03.1989), See entire document.	1,2,4
A	KR89-2233Y(HAERONG SILICON) 28 MAR. 1989 (28.03.1989), See entire document.	1,2,4
A	JP5-84279A(PIGEON) 6 APR. 1993 (06.04.1993), See entire document.	3
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*	Special categories of cited documents:	"T"	later document published after the international filing date or priority
"A"	document defining the general state of the art which is not considered		date and not in conflict with the application but cited to understand
	to be of particular relevance		the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international	"X"	document of particular relevance; the claimed invention cannot be
	filing date		considered novel or cannot be considered to involve an inventive
"L"	document which may throw doubts on priority claim(s) or which is		step when the document is taken alone
	cited to establish the publication date of citation or other	"Y"	document of particular relevance; the claimed invention cannot be
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"O"	document referring to an oral disclosure, use, exhibition or other		combined with one or more other such documents, such combination
	means		being obvious to a person skilled in the art
"P"	document published prior to the international filing date but later	11,8-11	document member of the same patent family

Date of the actual completion of the international search

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Further documents are listed in the continuation of Box C.

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See patent family annex.



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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP7-1939Y	13.01.1995	NONE	
KR86-5632A	11.08.1986	NONE	
KR89-2232Y	28.03.1989	NONE	
KR89-2233Y	28.03.1989	NONE	
JP5-84279A	06.04.1993.	NONE	